

Specific information desired:

Name _____

Company _____

Dept. _____ Mail Stop _____

Address _____

City _____ State _____ Zone _____

SEND ME INFORMATION ON THE FOLLOWING:

- Transistor Sockets Integrated Circuit Sockets DIP Sockets
- Board & Test Jacks Flat Package Sockets DIP Carriers
- Op Amp Sockets Flat Pack Carriers & Contactors Test & Aging Boards
- Module Test Sockets Automatic Flat Pack Test Handler Relay Test Sockets
- Please put me on your mailing list Others Have sales representative call on me for above products.

POSTAGE WILL BE PAID BY ADDRESSEE
NO POSTAGE STAMP NECESSARY IF MAILED IN THE UNITED STATES

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LANSDOWNE
PENNSYLVANIA

BUSINESS REPLY MAIL

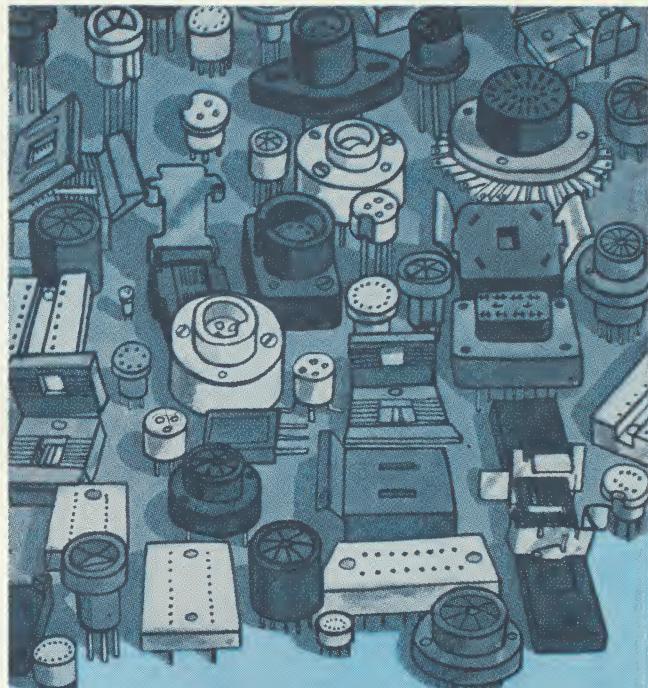
BARNES DEVELOPMENT CO.

**24 N. LANSDOWNE AVENUE
LANSDOWNE, PENNA. 19050**

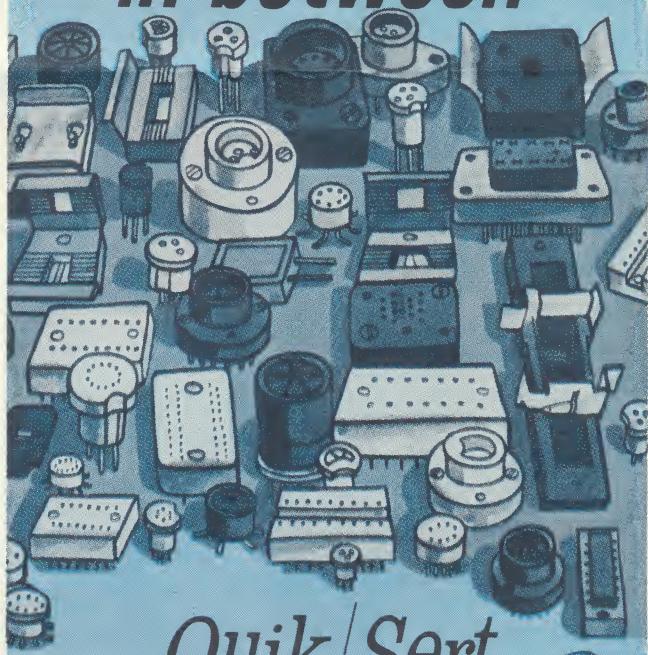
*See The Line
of Sockets for
Breadboarding, Test,
Aging, Production*

BOOTH 538 NEP/CON '67

NEW YORK COLISEUM, NEW YORK, N.Y.
JUNE 13 through 15, 1967



*...and everything
in between*



Quik/Sert
SOCKETS
CARRIERS and CONTACTORS

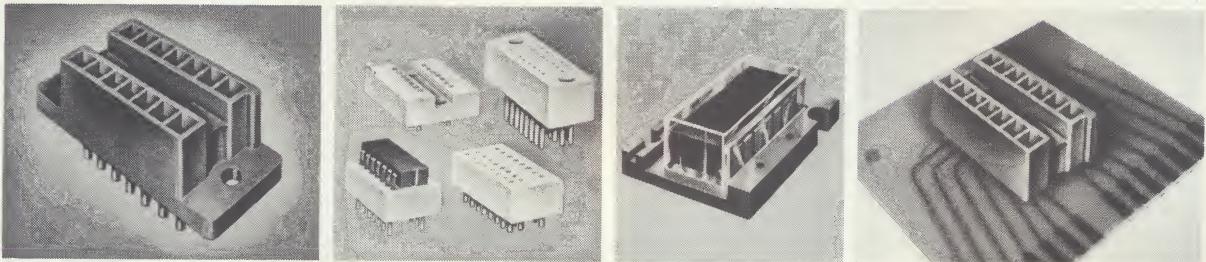
barnes
DEVELOPMENT COMPANY

LANSDOWNE, PA. 19050 ■ (215) MA 2-1525

BARNES Quik/Sert SOCKETS

FOR PRODUCTION, TEST, AGING AND BREADBOARDING

SOCKETS FOR DUAL-IN-LINE INTEGRATED CIRCUITS



Barnes dual-in-line sockets are designed for packages with up to 16 round, octagonal or rectangular leads as short as 0.100" with 0.3" and 0.2" row spacing. Large chamfered entrances permit fast, easy insertion and withdrawal. Insertion force is 1 to 2 ounces per lead, depending on lead size. Sockets are available with or without mounting holes and flanges. Sockets may be specified with device removal slot. Removal tool is available. On MGL Series sockets, ejector key may be used for semi-automatic device removal. DIP sockets are also available mounted on standard 15-lead P.C. boards.

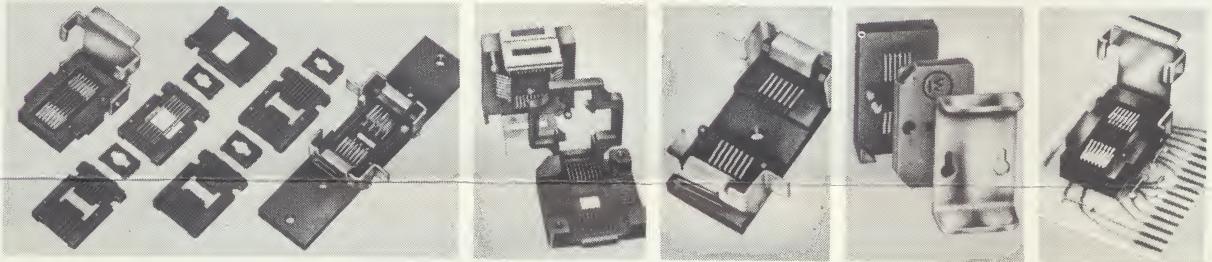
BODY DIELECTRIC: Excellent electrical characteristics at operating temperatures to 200°C or 150°C.

MOUNTING & TERMINALS: Chassis mounting—tubular terminals with or without solder cups; P.C. board mounting—tab type or pin terminals for dip or wave soldering.

CONTACTS: Ni/Au plated Be Cu. Spring temper, wiping type. Resistance less than 0.01 ohms typical.

LIFE: Up to 50,000 insertions typical.

SERIES 029 CARRIERS and CONTACTORS FOR FLAT-PACK I.C.'s



029 carriers accept standard I.C. flat-packs, providing fast, simple loading. Barriers between leads give positive separation for 14 flat or preformed leads. Device is positively retained by reusable clip. Carriers also serve as shipping/test containers.

Carriers are inserted or removed from one-piece or two-piece contactors with a simple one-hand action, and held in place by stainless steel latches. Contacts provide uniform low resistance, won't scrape or mar leads.

Contactors are available for several carrier styles, including Model 029-017 for Fairchild carriers, Model 029-120 for Philco carriers and Series 036 for Westinghouse APC carriers. Model

029-196 is a contactor mounted on standard 15-lead P.C. board. Custom designs are available for special package sizes and configurations.

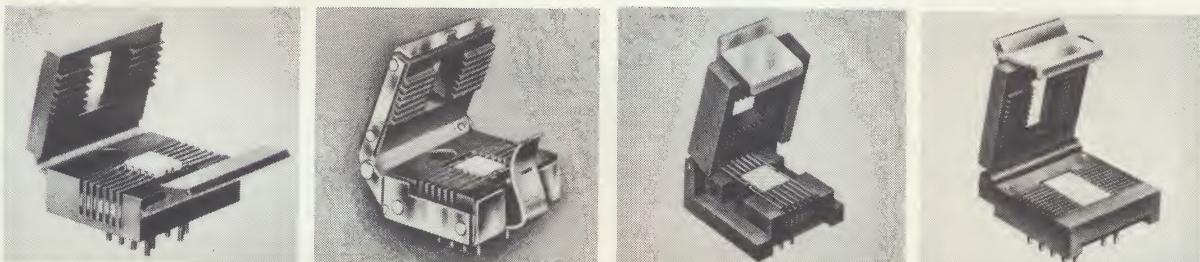
BODY DIELECTRIC: Continuous operating temperatures -65°C to 150°C or 200°C.

PACKAGES ACCEPTED: $\frac{1}{8}$ " x $\frac{1}{4}$ " up to $\frac{3}{8}$ " x $\frac{3}{8}$ ".

CONTACTS: Ni/Au plated Be Cu. Spring temper, wiping type. Resistance less than 0.01 ohms.

CONTACTOR LIFE: Up to 100,000 insertions typical.

SERIES MD "FLIP-TOP" SOCKETS FOR FLAT-PACK I.C.'s



Simple, fast loading; snap open, insert I.C., close and latch socket. Forces on leads uniformly distributed. No strain on body/lead junction. Barriers between leads give positive separation and automatic device positioning. Sockets can be hand wired, dip soldered, wire wrapped, or used as a carrier with RD-86 mating connector. MDP Series are sockets mounted on standard 15 lead P.C. boards. MD-100 Series sockets accept packages up to 1" x 1", with up to 40 leads on 0.050" centers, and feature advanced design snap-open lid.

BODY DIELECTRIC: MD-50 for continuous operation to 125°C;

MD-70 to 175°C; MD-80 and MD-90 to 150°C; MD-100 to 150°C or 200°C. Excellent electrical characteristics.

PACKAGES ACCEPTED: $\frac{1}{8}$ " x $\frac{1}{4}$ ", $\frac{1}{4}$ " x $\frac{1}{4}$ " and $\frac{1}{4}$ " x $\frac{3}{8}$ " packages with up to 14 flat leads to 0.025" wide on 0.050" centers. MD-100 Series accept $\frac{3}{8}$ " to 1" package widths and up to 40 leads.

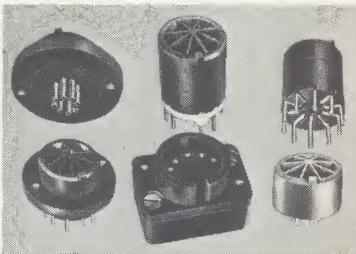
CONTACTS: Ni/Au plated Be Cu. Spring temper, wiping type. Resistance less than 0.01 ohms.

LIFE: Up to 50,000 insertions typical.

BARNES Quik/Sert SOCKETS

SOCKETS FOR TO PACKAGED I.C.'S AND TRANSISTORS

SERIES MF SOCKETS WITH EXTRA-LARGE ENTRANCES



Pyramidal entrances for fast insertion of devices. No lead deformation. Low uniform contact resistance. 6, 8, 10, 12 and 14 lead arrangements.

STYLES/TERMINALS: Chassis mounting — straight barrel terminals with/without solder hole; P.C. board mounting — offset wire or ribbon terminals; mating base connector RD-62 available.

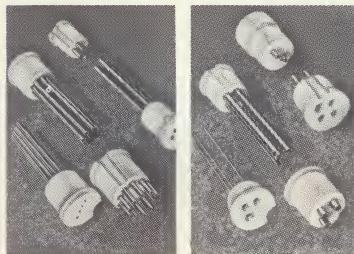
BODY: Polysulfone or Teflon FEP standard. Operating temperatures to 150°C or 200°C.

LEADS ACCEPTED: 0.015" to 0.025" diameters; 0.30" to 1 1/2" lengths.

CONTACTS: Spring temper, wiping type. Ni/Au plated Be Cu. Resistance less than 0.01 ohms typical.

LIFE: Up to 50,000 insertions typical.

SERIES MA and MS TEFLOM PRESS-MOUNTING SOCKETS



Largest line of high-quality, long life sockets for I.C.'s, transistors, other miniature components. Also in-line high frequency and power transistor sockets. Low capacitance and loss factor. Easy-insertion chamfered entrances. Polarization notch on all sockets.

MOUNTING: Compression fit in round hole or use with mounting saddle. Long or short guide tubes.

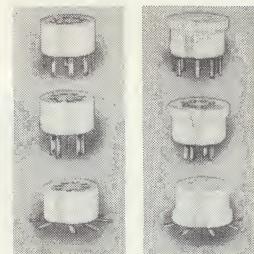
BODY: Teflon TFE or Polysulfone for operation to 200°C or 150°C.

LEADS ACCEPTED: 0.015" to 0.042" diameters, 0.120" to 1 1/2" lengths.

CONTACTS: Spring temper, wiping type. Ni/Au Plated Be Cu. Terminal Ni/Au plated brass. Resistance less than 0.01 ohms typical.

LIFE: Up to 100,000 insertions typical.

SERIES MG EXTRA-COMPACT TEFLOM SOCKETS



Featuring compact size, ease of insertion, rapid mounting and positive lead retention. For transistors, tubes, I.C.'s and modules with 3, 4, 5, 6, 8, 10, 12 or 14 leads. MGR, MGS, MGRC have 0.215" profile above P.C. board.

STYLES & TERMINALS: Chassis mounting; dip or wave soldering to P.C. board. Straight barrel terminals with or without soldering holes; straight through, offset or expanded circle ribbon terminals.

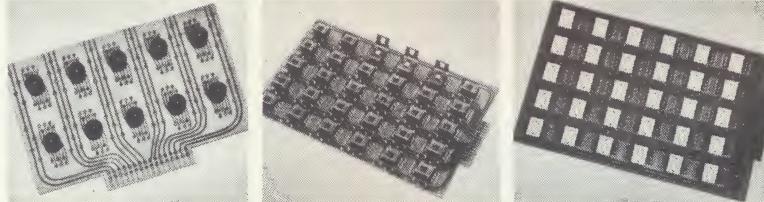
BODY: Teflon TFE for -65°C to 200°C operating range.

LEADS ACCEPTED: 0.015" to 0.25" diameter; 5/32" minimum length.

CONTACTS: Spring temper, wiping type. Ni/Au plated Be Cu. Resistance less than 0.01 ohms typical.

LIFE: Up to 50,000 insertions typical.

SERIES 030 SOCKET BREADBOARDS FOR TO's/FLAT-PACK's/DIP's



Series 030 Breadboards are available in 10, 20 or 30 socket configurations to accommodate TO packages, flat-pack or dual-in-line integrated circuits. The breadboard/test assemblies permit rapid interconnection of I.C.'s for circuit evaluation and power testing.

BOARD: G-10 epoxy glass.

TEMP. RANGE: -65°C to 125°C.

POWER CONNECTIONS: Power, input/output busses run full length of board with two connections on each buss for each socket position.

EDGE CONNECTORS: Edge fingers or Elco 5000 Series.

INTERCONNECTIONS: Two alternate designs are available: for power aging, wiring is soldered to turret lugs connected to each socket and the busses; for circuit evaluation, spring-loaded pin jacks are interconnected with wire jumpers, allowing the same units to be used repeatedly to evaluate various circuit designs.

SOCKETS: MF for TO packages; MD-50 for flat-packs; MGRX for DIP's.

SPECIAL BOARDS ALSO AVAILABLE

Teflon—DuPont TM

ALABAMA—Huntsville
Beacon Electr. Assoc., 404-636-7526

ARIZONA—Los Angeles, Calif.
DynaSales Co., 213-268-1175

CALIFORNIA (Northern)—Los Altos
R. A. Banks Co., 415-WH 1-0900

CALIFORNIA (Southern)—Los Angeles
DynaSales Co., 213-268-1175

COLORADO—Denver

Palmer-Robbins Assoc., 303-255-9961

CONNECTICUT—West Hartford
Hale-Forden Assoc., 203-521-5620

FLORIDA—Fort Lauderdale

Beacon Electr. Assoc., 305-564-4298

FLORIDA—Miami
Beacon Electr. Assoc., 305-647-3498

ILLINOIS—Chicago

Robert J. Kennedy Co., 312-NE 1-8283

KANSAS—Overland Park
Penzner Assoc., 913-DU 1-0004

MARYLAND—Silver Spring
Paddock Joslow Co., 301-588-7866

MINNESOTA—Minneapolis
Bonament Heyda Co., 612-944-2582

MISSOURI—St. Louis
Penzner Assoc., 314-CH 1-4385

NEW JERSEY (Northern)—Mountain Lakes
J. P. Dearie Co., 201-334-4848

NEW JERSEY (Southern)—Devon, Pa.
Beebe & Aikman Co., 215-MU 8-5173

NEW MEXICO—Albuquerque
Electronic Enterprises, 505-256-1585

NEW MEXICO—Las Cruces
Electronic Enterprises, 505-524-0126

NEW YORK—Fayetteville
M. P. Andrews, Inc., 315-637-6405

NEW YORK (Metropolitan & Long Island)—Mt. Lakes, N. J.

J. P. Dearie Co., 201-334-4848

NORTH CAROLINA—Charlotte
Beacon Electr. Assoc., 704-366-9761

OHIO—Medina
McShane, 216-725-4283

OKLAHOMA—Tulsa
Tom Burton Sales Co., 918-WE 9-6293

PENNSYLVANIA—Devon
Beebe & Aikman Co., 215-MU 8-5173

TEXAS—Dallas
Gillett Ind. Co., 214-EM 3-0107

TEXAS—Houston
Gillett Ind. Co., 713-SU 2-9429

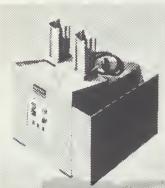
WASHINGTON—Seattle
J. J. Backer Co., 206-AT 3-6470

EXPORT
Dage Corp., Stamford, Conn.

203-324-3123

MODEL 037 AUTOMATIC I.C. FLAT-PACK TEST HANDLER

Model 037 Test Handler facilitates rapid testing of 14 lead flat-packs in Barnes standard 029 Series carriers. Handling is fast, easy, automatic. Manual or magazine loading. Positive polarization. Typical 1 second cycle rate. Ni/Au plated Be Cu wiping type test probes.



SPEEDS USE OF FLAT-PACK TESTERS: Eliminates slow, manual test feeding. One second cycle rate makes best utilization of expensive, automatic-I.C. flat-pack parameter test equipment.

QUALITY CONTROL: For quick checks on small or large flat-pack quantities.

INCOMING INSPECTION: For the I.C. user requiring in-house inspection.

Custom Sockets, Carriers and Contactors can be quickly produced in any quantity to meet your requirements. Call your representative or write to:

barnes
DEVELOPMENT COMPANY

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RETURN REQUESTED

Mr. T. Nelson
Box 1546
Poughkeepsie, N.Y.

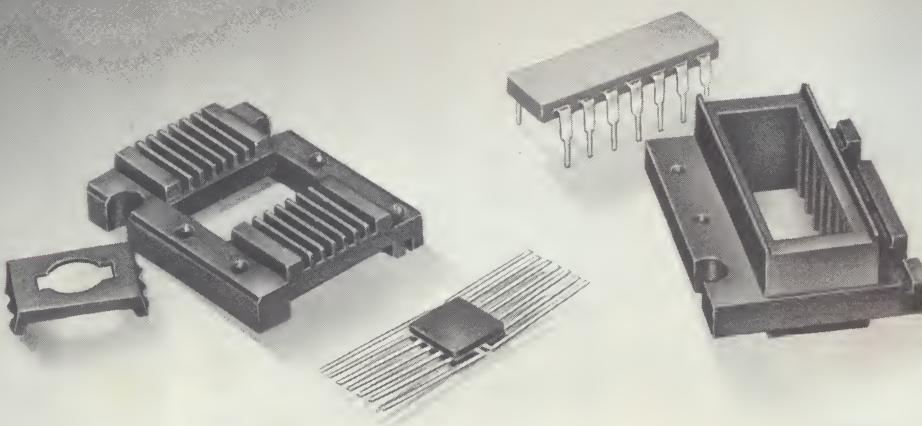


NEW YORK—JUNE 13-15, 1967

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sooner or later
you're going to use
Barnes flat-pack
and dual-in-line
Carriers



...just to keep up with competition!